

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/987,644 11/15/2001 John C. Engdahl 2001P21160US (2436-107) 7440 EXAMINER 6449 ROTHWELL, FIGG, ERNST & MANBECK, P.C. MORAN, TIMOTHY J 1425 K STREET, N.W. ART UNIT PAPER NUMBER SUITE 800 WASHINGTON, DC 20005 2878

DATE MAILED: 11/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		NC
	Application No.	Applicant(s)
	09/987,644	ENGDAHL ET AL.
Office Action Summary	Examiner	Art Unit
	Timothy J. Moran	2878
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status		
1) Responsive to communication(s) filed on		
2a) This action is FINAL . 2b) ⊠ This	action is non-final.	
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) 5 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 		
Application Papers		
9)☐ The specification is objected to by the Examiner.		
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. §§ 119 and 120		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domesti since a specific reference was included in the firs 37 CFR 1.78. a) The translation of the foreign language pro 14) Acknowledgment is made of a claim for domesti reference was included in the first sentence of the	s have been received. s have been received in Apprity documents have been received in Apprity documents have been recommended (PCT Rule 17.2(a)). of the certified copies not recommended priority under 35 U.S.C. § st sentence of the specification of the second application has been continued in the second application has been received in Apprit in the second application has been received in Apprit in the second application has been received in Apprit in the second application has been received in Apprit in the second application has been received in Apprit in the second application has been received in Apprit in the second application has been received in Apprit in the second application has been received in Apprit in the second application has been received in the second application	ceived in this National Stage ceived. 119(e) (to a provisional application) on or in an Application Data Sheet. In received. 120 and/or 121 since a specific
Attachment(s)	r¬ .	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)

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DETAILED ACTION

Information Disclosure Statement

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Ichihara, U.S. Patent No. 5,227,968. Regarding claim 1, Ichihara describes a method for discriminating desired radiation events comprising the steps of obtaining a response function (col. 5, lines 64-68), obtaining a radiation distribution, and mathematically operating on said radiation distribution with said response function (see abstract).

Regarding claim 2, Ichihara teaches the use of the detector in a medical device (see abstract).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ichihara as applied to claim 1 above, and further in view of Lingren, U. S. Patent No. 5,847,396. Regarding claim 3, Ichihara does not teach the use of a CZT detector. However, Lingren teaches that CZT detectors are useful in imaging radiation detectors (col. 8, lines 1-6). Therefore it would have been obvious to one of ordinary skill in the art to use CZT in the invention of Ichihara to detect radiation.

Regarding claim 4, Ichihara teaches the obtaining of a response function for each pixel of the detector (col. 5, lines 64-68).

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Allowable Subject Matter

Claim 5 is objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject

matter: The method of claim 5 comprising the calculation of a dot product of a response

function and a weighting vector is considered a nonobvious modification of prior art

methods.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Timothy J. Moran whose telephone number is 703-305-

0849. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Porta can be reached on 703-308-4852. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

T.M.

TM

November 13, 2003

CONSTANTINE HANNAHER
PRIMARY EXAMINER
GROUP ART UNIT 2878

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